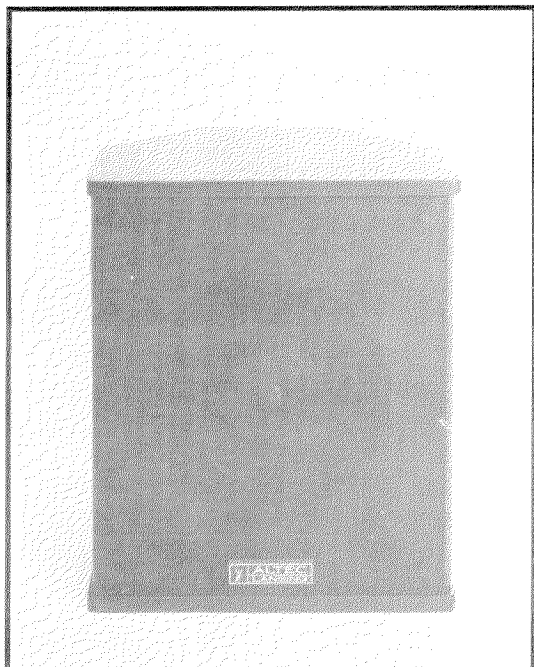




# PS-92 12" Duplex® Portable Loudspeaker System



## KEY FEATURES

- ★ Portable Loudspeaker System
- ★ Unique, 5-Sided Enclosure
- ★ Medium-Output Capability
- ★ Auto-Reset Circuit Breaker

## PRIMARY SPECIFICATIONS

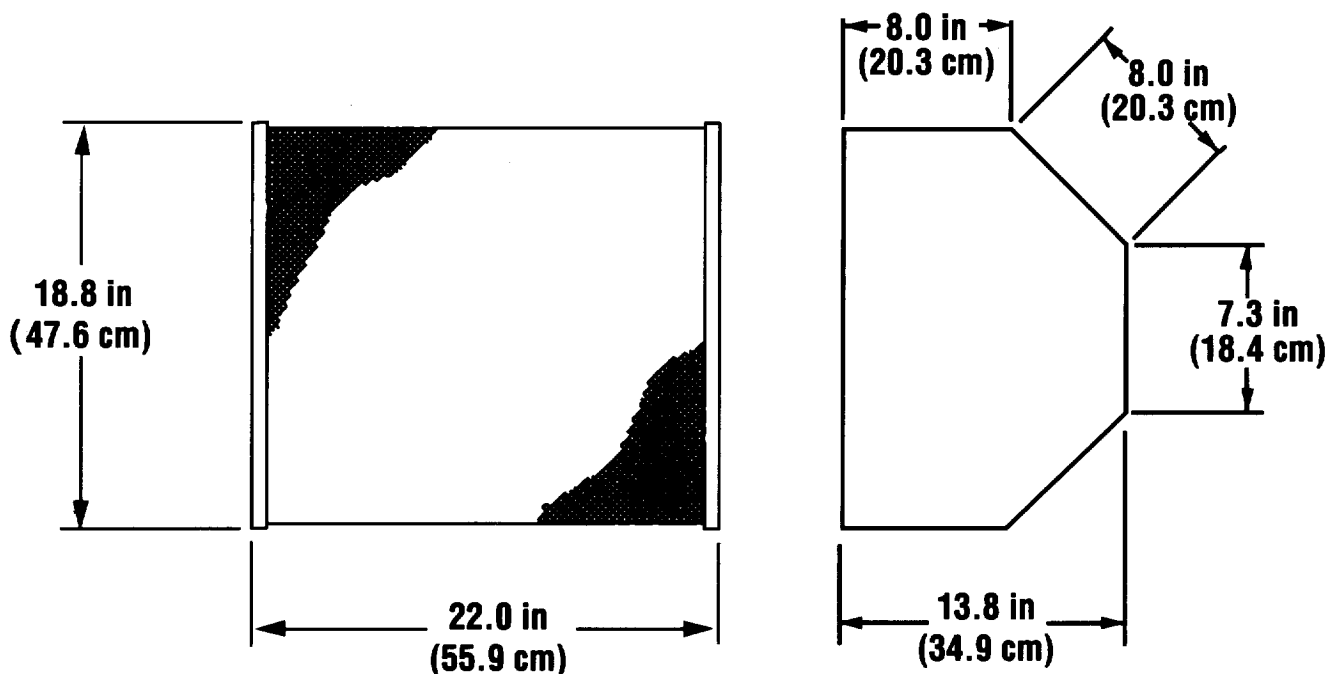
<b>System Type:</b>	Two-way, vented type full-range loudspeaker system.
<b>Pressure sensitivity:</b>	97.0 dB SPL (1 W, 50 Hz - 15 kHz, re: 20 $\mu$ Pa, see note 1).
<b>Frequency Response:</b>	50 Hz - 15 kHz (see Figure 1, Note 2)
<b>Power Handling:</b>	125 watts, 50 Hz - 15 kHz, AES method (see note 3). 250 watts, 50 Hz - 15 kHz, continuous program. 500 watts, 50 Hz - 15 kHz, peak power.
<b>Maximum Long Term Output:</b>	117.2 dB SPL (125 watts input, 1 m, re: 20 $\mu$ Pa, see note 4).
<b>Impedance:</b>	5.2 ohms minimum. 8.0 ohms nominal.

## DESCRIPTION

The Altec Lansing **PS-92** loudspeaker is a two-way, factory assembled system capable of producing medium to high acoustic output from a small package. It is well suited for medium to high level sound reproduction in houses of worship, audio-visual presentations, conference rooms or other smaller acoustic environments. The **PS-92** utilizes a 12 inch (30.5 cm) duplex® loudspeaker with a wide dispersion dome tweeter. Smooth transition at crossover is accomplished by a dual section 12 dB/octave network with a center frequency of 1.5 kHz. The **PS-92** is also fully protected by means of an auto-reset circuit breaker at the input of the system which will

not allow the inexperienced operator to damage the system's components. The enclosure is constructed of 3/4-inch Enviro-board™ covered in a protective light gray carpet that is more durable than conventional coverings. The enclosure is supplied with a removable metal grille which adds to the durability. Inset handles on either side of the unit allow for easy transportation. A built-in stand mount compliments the versatility of this unit.

The Altec Lansing **PS-92** is the ideal choice where a flexible, portable, inexpensive loudspeaker system must project outstanding live voice or music reproduction.



## PS-92 SPECIFICATIONS (continued)

<b>Components:</b>	12-inch duplex® loudspeaker with a wide-dispersion dome tweeter.	<b>Enclosure:</b>	Vented-type, built of 3/4-inch (1.9 cm) Enviro-board™ lined with glass wool.
<b>Crossover Network:</b>	Two-way at 1500 Hz with a 12 dB per octave slope for both sections.	<b>Finish:</b>	Light gray carpet covering with black metal grille.
<b>Input Terminals:</b>	Two 1/4-inch phone jacks and two Neutrik Speakon connectors.	<b>Dimensions:</b>	18.8 in (47.6 cm) high 22.0 in (55.9 cm) wide 13.8 in (34.9 cm) deep
<b>Replacement H.F. Diaphragm:</b>	25456	<b>Net Weight:</b>	43.0 lbs (19.5 kg)
<b>Replacement L.F. Recone Kit:</b>	R920-8B	<b>Shipping Weight:</b>	49.0 lbs (22.3 kg)
<b>Replacement Grille:</b>	Model RG9820B		

Altec Lansing continually strives to improve products and performance. Therefore, specifications are subject to change without notice.

## NOTES ON MEASUREMENT CONDITIONS

1. Pink noise signal, one Watt calculated using  $E^2/Z_{min}$ , 3.16 meter measurement distance referred to one meter.
2. On-axis, one Watt calculated using  $E^2/Z_{min}$ , 3.16 meter measurement distance referred to one meter, low frequencies corrected for anechoic chamber error.
3. This system rating patterned after the AES method for individual driver, where the test signal is pink noise with a 6 dB crest factor over the bandwidth of the system, with power calculated using the  $E^2/Z_{min}$ , for two hours.
4. This measurement made under the same conditions as Pressure Sensitivity, but at rated power, and takes into account any power compression effects due to non-linearities in the system.
5. Distortion components invalid above 10 kHz. The distortion at any given frequency may be found by graphically taking the difference between the fundamental and harmonic, and adding the number of Decibels which the harmonic has been raised on the graph and apply the formula:  

$$\% \text{ distortion} = 100 \times 10^{(-\text{difference in dB} / 20)}$$

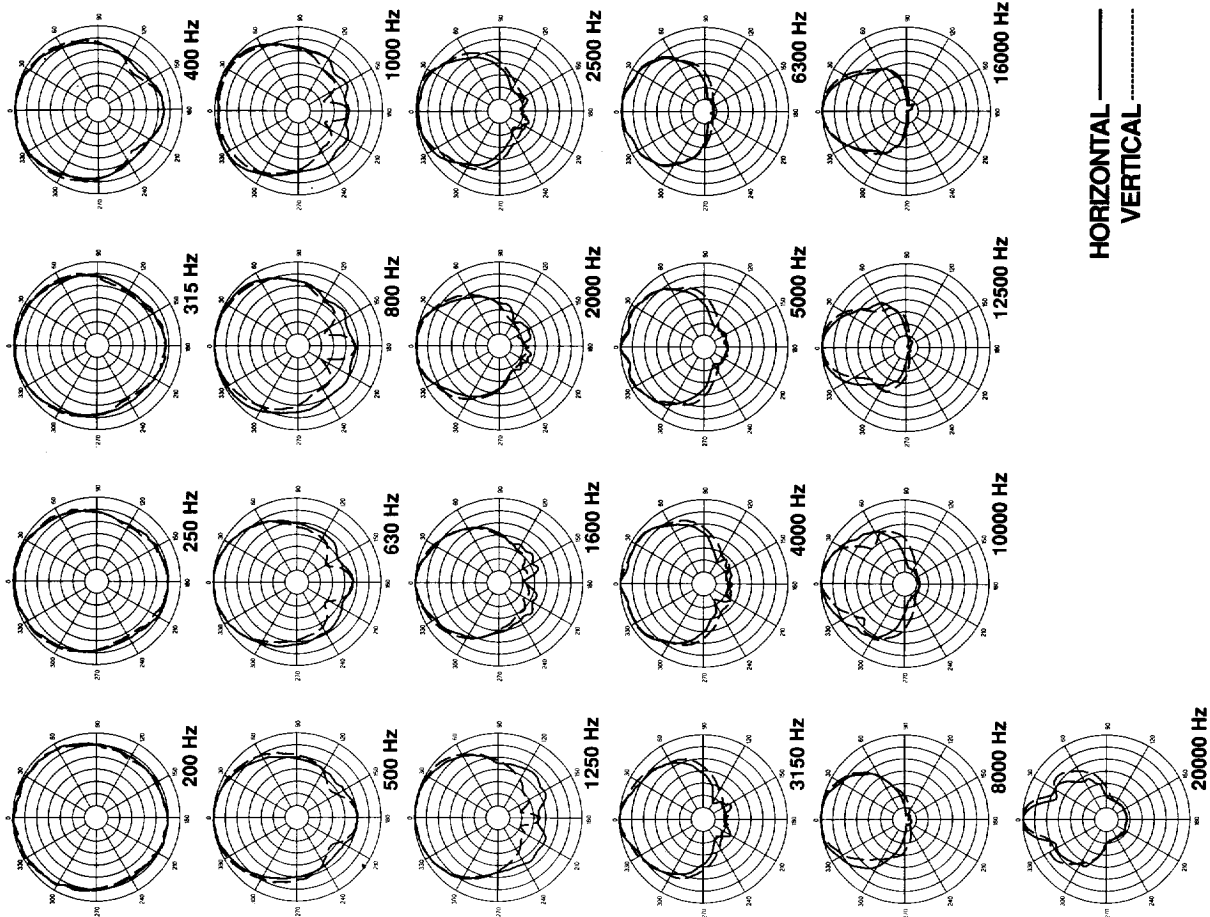


Figure 1 1/3-Octave Polar Response

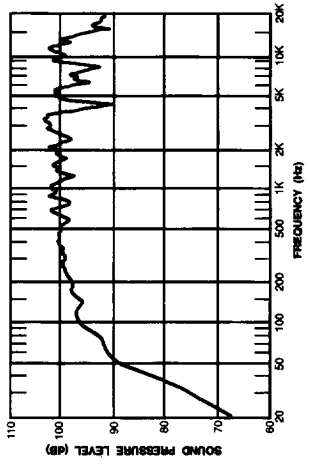


Figure 2. Frequency Response

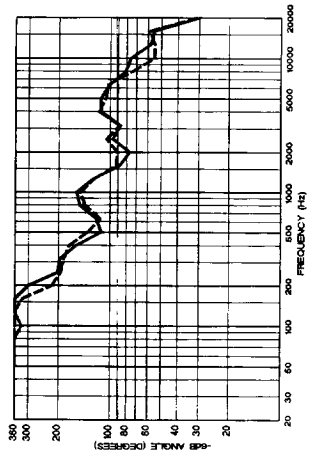


Figure 3. Dispersion Angle

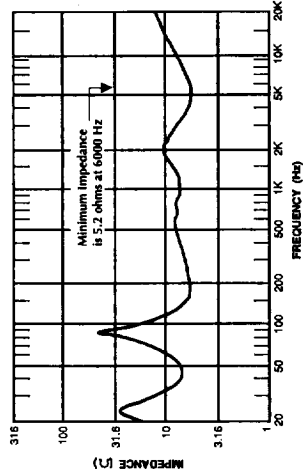


Figure 4. Magnitude of Impedance

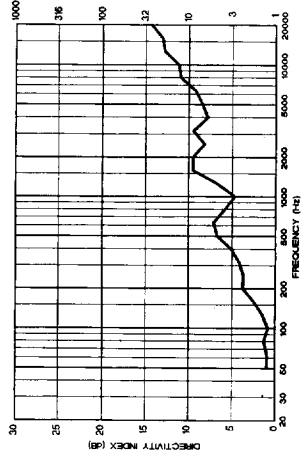


Figure 5. Q and Directivity Index

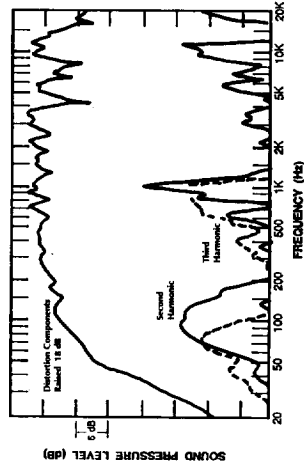


Figure 6. Harmonic Distortion at 0.01 Rated Power

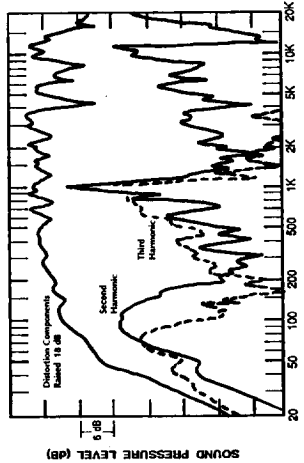


Figure 7. Harmonic Distortion at 0.1 Rated Power

## ARCHITECT'S AND ENGINEERS SPECIFICATIONS

The loudspeaker system shall be a two-way multipurpose type consisting of a 12-inch duplex® loudspeaker with a wide-dispersion dome radiator tweeter. The dividing network is a dual-section type 12 db/octave slope on both L.F. and H.F. sections with a crossover center frequency of 1.5 kHz. The loudspeaker system shall meet the following performance criteria: Power handling, 125 watts of pink noise with 6 dB crest factor, band limited from 50 Hz - 15 kHz. Frequency response, smooth and uniformly usable from 50 Hz - 15 kHz. Pressure sensitivity, 97 dB spl

when measured at one meter on axis with one watt of band-limited pink noise from 50 Hz - 15 kHz. Minimum impedance, 5.2 ohms.

The enclosure shall be of the ported type, constructed of 3/4 inch Enviro-board™ lined with sound-absorbent glass wool. The enclosure shall be covered in a protective gray carpet and feature a metal grille. The dimensions shall be 18.8 inches (47.6 cm) high by 22.0 inches (55.9 cm) wide by 13.8 inches (34.9 cm) deep. The loudspeaker shall weigh 43.0 lbs. (19.5 kg) The loudspeaker system shall be the Altec Lansing PS-92.



a MARK IV company

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